[INCH-POUND]
A-A-55568/3A
12 May 1998
SUPERSEDING
A-A-55568/3
December 8, 1995

COMMERCIAL ITEM DESCRIPTION

HEADSET-MICROPHONE, MONAURAL, LIGHTWEIGHT, SUPRA-AURAL

The General Services Administration has authorized the use of this commercial item description (CID) for all federal agencies.

1. SCOPE. This CID covers the general requirements for monnaural, lightweight, supra-aural headsets. Headsets covered by this CID are intended for commercial/industrial applications.

2. CLASSIFICATION. This CID uses a classification system which is included in the Part or Identification Number (PIN) as shown in the following example (see 6.1).

AA55568/3 - 001

CID PIN — Dash number (see table I)

3. SALIENT CHARACTERISTICS.

3.1 Design and construction. See figures 1 and 2 for non noise-canceling, figures 3 and 4 for noise-canceling configuration. The headset-microphone shall incorporate a receiver amplifier with compression and a three-position volume control.

3.1.1 Alternate design and construction. See figures 5 and 6 illustrating the headset-microphone incorporating a quick-disconnect connector. (see note 3.2.3)

Beneficial comments, recommendations, additions, deletions, clarifications, etc., and any data which may improve this document should be sent to: Defense Supply Center, Columbus, ATTN: DSCC-VAM, 3990 E. Broad St., Columbus, OH 43213-1199, or telephone (614)692-0559, or facsimile (FAX) (614) 692-6939.

3.2 Configurations and dimensions. Configurations and dimensions shall be as specified on figure 1, 3, and 5.

3.2.1 Voice tube. The headset-microphone with non-noise-canceling shall be supplied with an adjustable acoustic voice tube (see figure 1).

3.2.2 Noise-canceling microphone. The headset-microphone with noise-canceling shall be supplied with a unidirectional microphone (see figure 3).

3.2.3 Quick-disconnect assembly. The headset-microphone shall be supplied with a four (4) contact quick-disconnect connectors (1/) between the headset and the lockable/nonlockable push-to-talk switch.

(1/) Referenced quick-disconnect is of the design of each manufacturer of each headset assembly. The intent is to offer an alternate assembly design for the complete headset-microphone and not to be intermixed between manufacturers.

3.2.4 Clothing clip. The headset-microphone shall be supplied with a clothing clip.

3.2.5 Switch. The headset-microphone shall be supplied with a lockable/nonlockable push-to-talk switch.

3.2.6 Plug termination. The plug termination shall be a Western Electric Company part number WE 425 or equivalent configuration.

3.3 Wiring diagram. The wiring diagram shall be as specified on figure 2, 4, and 6.

3.4 Cable assemblies. The cable assemblies shall be as specified in table I.

3.5 Frequency range. The frequency range for the headset shall be 300 to 3300 Hz.

3.6 Electrical characteristics.

3.6.1 Receiver.

3.6.1.1 Output level. The receiver output level shall be 75.5 "4 dB SPL (12.6 mV rms through 600 ohms).

3.6.1.2 Distortion. Distortion for the headset shall be less than 5 percent.

3.6.1.3 Receiver impedance. The receiver impedance shall be 600 ohms nominal.

3.6.2 Microphone/amplifier.

3.6.2.1 Output level. The output level shall be -22.5 dB V "4 dB V (47 to 119 mV rms).

(NOTE: All transmit measurements are made with 94 dB SPL drive at 1000 Hz into a 50 ohm resistive load at 100 mA dc. Also 0 dB m = 1 milliwatt; 0 dB SPL = .0002 dynes/cm^2; 0 dB V = 1 volt.)

3.6.2.2 DC resistance. The dc resistance shall be greater than 35 ohms.

3.6.2.3 Terminal voltage. Terminal voltage shall be 4.7 V dc at 100 mA.

3.6.2.4 Microphone impedance. Microphone impedance shall be 50 ohms nominal.

3.6.2.5 Polarity. The microphone/amplifier shall be nonpolar.

3.7 Marking. Headsets supplied to this CID shall be marked with the manufacturer's (MFGR) standard commercial PIN.

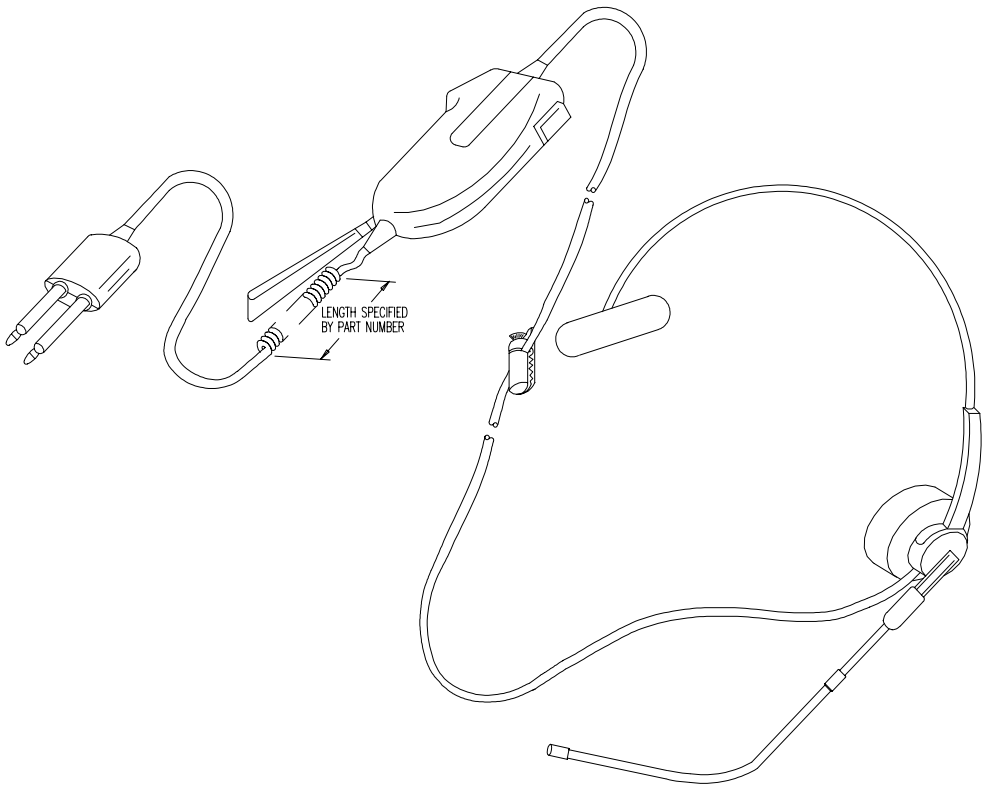

Figure 1. Unamplified headset-microphone without noise-canceling configurations.

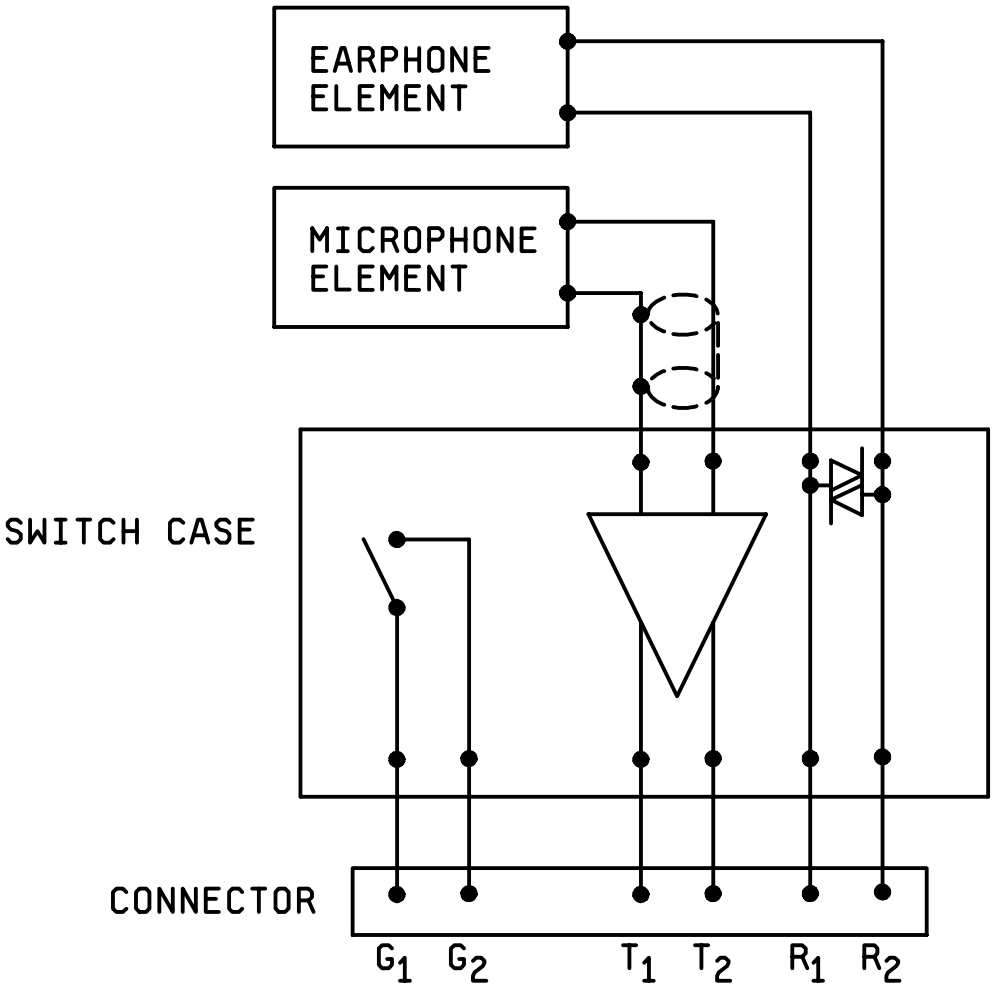

Figure 2. Unamplified headset-microphone wiring diagram without noise-canceling.

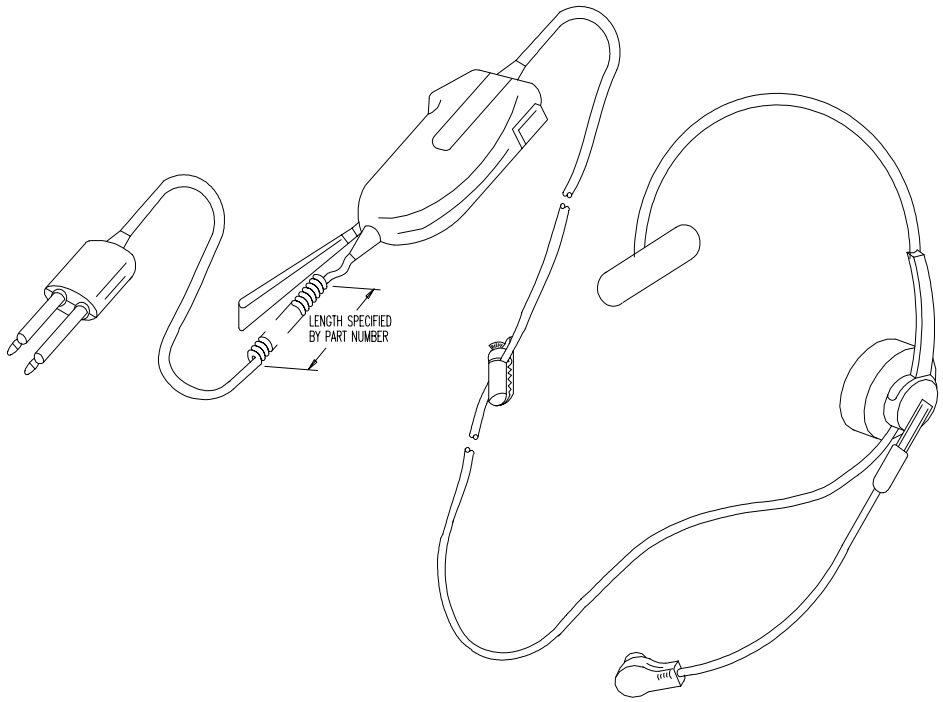

Figure 3. Unamplified headset-microphone with noise-canceling configurations.

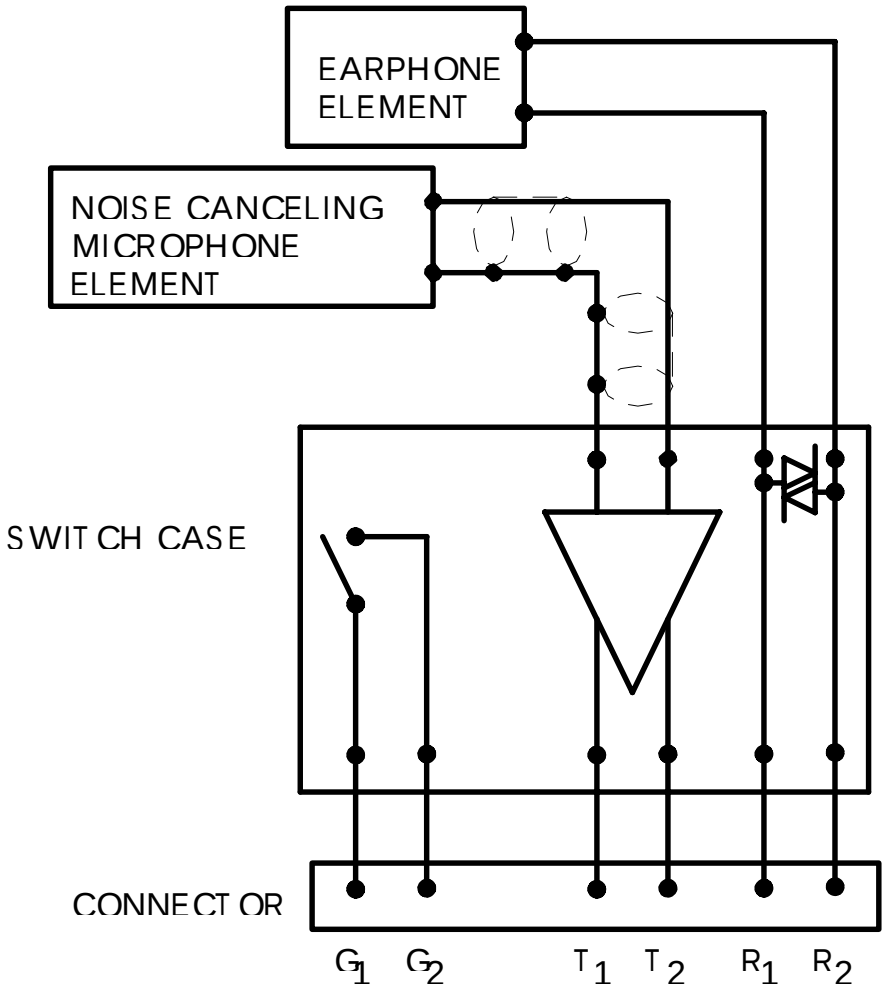

Figure 4. Unamplified headset-microphone wiring diagram with noise-canceling.

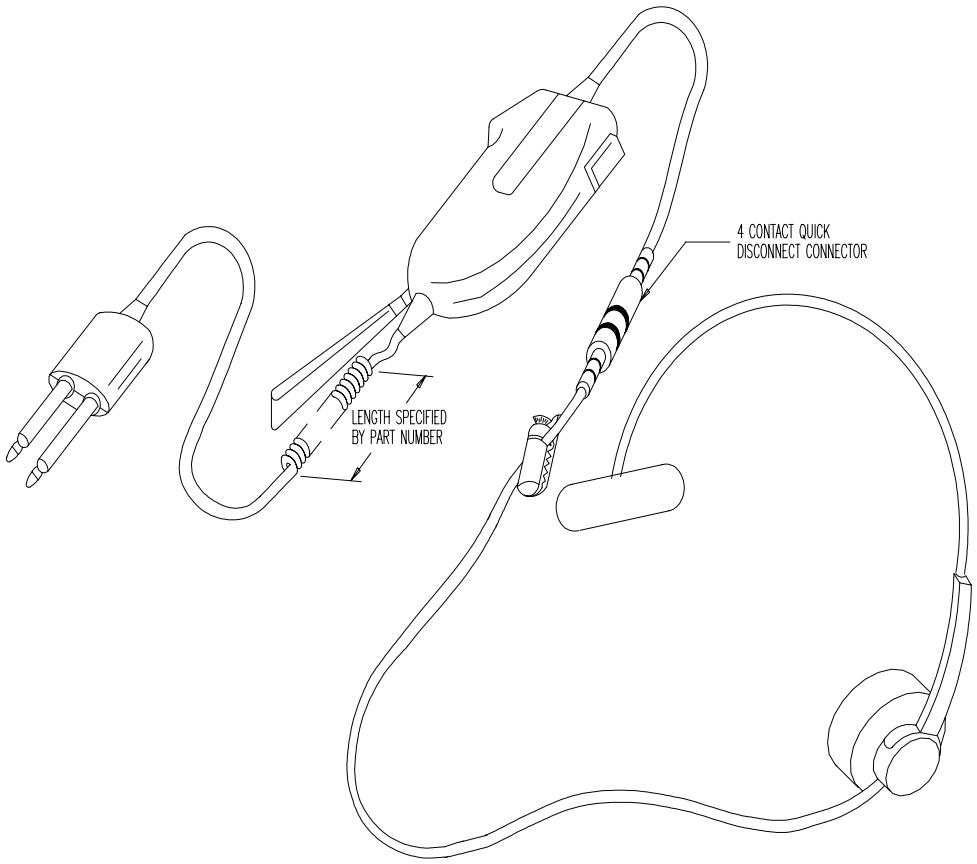

Figure 5. Unamplified headset-microphone with alternate quick-disconnect connector configuration.
(This view to show the quick-disconnect only, to be used with either voice tube or noise-canceling microphone.)

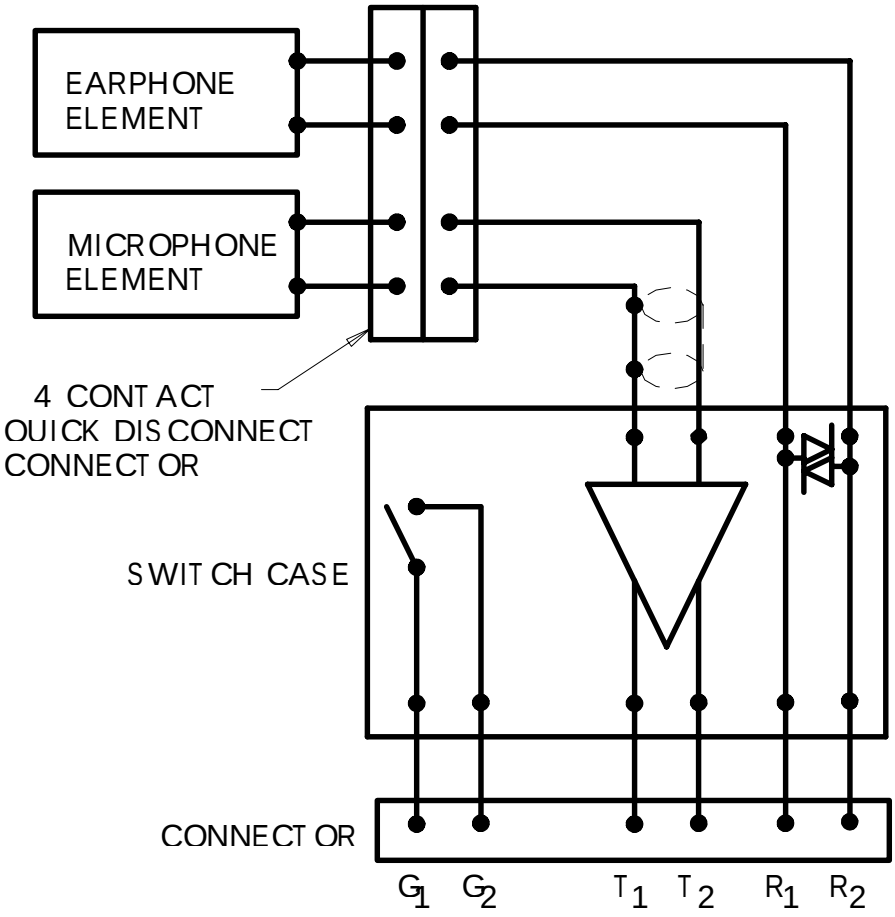

Figure 6. Unamplified headset-microphone with alternate quick-disconnect wiring diagram.

TABLE I. Cable assembly characteristics.

AA55568/3-	Characteristics
01	Headset-microphone with non-noise-canceling voice tube design. The length of the coiled portion of the connector cable assembly shall be 50.8 centimeters (20 inches) nominal when retracted and 3.05 meters (10 feet) nominal when extended. (reference Fig.1)
02	Headset-microphone with non-noise-canceling voice tube design. The length of the coiled portion of the connector cable assembly shall be 76.2 centimeters (30 inches) nominal when retracted and 4.57 meters (15 feet) nominal when extended. (reference Fig. 1)
03	Headset-microphone with non-noise-canceling voice tube design. The length of the coiled portion of the connector cable assembly shall be 127 centimeters (50 inches) nominal when retracted and 7.62 meters (25 feet) nominal when extended. (reference Fig. 1)
04	Headset-microphone with noise-canceling unidirectional microphone design. The length of the coiled portion of the connector cable assembly shall be 50.8 centimeters (20 inches) nominal when retracted and 3.05 meters (10 feet) nominal when extended. (reference Fig. 3)
05	Headset-microphone with noise-canceling unidirectional microphone design. The length of the coiled portion of the connector cable assembly shall be 76.2 centimeters (30 inches) nominal when retracted and 4.57 meters (15 feet) nominal when extended. (reference Fig. 3)
06	Headset-microphone with noise-canceling unidirectional microphone design. The length of the coiled portion of the connector cable assembly shall be 127 centimeters (50 inches) nominal when retracted and 7.62 meters (25 feet) nominal when extended. (reference Fig. 3)

TABLE I. Cable assembly characteristics (continued).

AA55568/3-	Characteristics
07	Headset-microphone with non-noise-canceling voice tube and quick-disconnect. The length of the coiled portion of the connector cable assembly shall be 50.8 centimeters (20 inches) nominal when retracted and 3.05 meters (10 feet) nominal when extended. (reference Fig. 5)
08	Headset-microphone with non-noise-canceling voice tube and quick-disconnect. The length of the coiled portion of the connector cable assembly shall be 76.2 centimeters (30 inches) nominal when retracted and 4.57 meters (15 feet) nominal when extended. (reference Fig. 5)
09	Headset-microphone with non-noise-canceling voice tube and quick-disconnect. The length of the coiled portion of the connector cable assembly shall be 127 centimeters (50 inches) nominal when retracted and 7.62 meters (25 feet) nominal when extended. (reference Fig. 5)
10	Headset-microphone with noise-canceling unidirectional microphone and quick-disconnect. The length of the coiled portion of the connector cable assembly shall be 50.8 centimeters (20 inches) nominal when retracted and 3.05 meters (10 feet) nominal when extended. (reference Fig. 5)
11	Headset-microphone with noise-canceling unidirectional microphone and quick-disconnect. The length of the coiled portion of the connector cable assembly shall be 76.2 centimeters (30 inches) nominal when retracted and 4.57 meters (15 feet) nominal when extended. (reference Fig. 5)
12	Headset-microphone with noise-canceling unidirectional microphone and quick-disconnect. The length of the coiled portion of the connector cable assembly shall be 127 centimeters (50 inches) nominal when retracted and 7.62 meters (25 feet) nominal when extended. (reference Fig. 5)

4. QUALITY ASSURANCE PROVISIONS. Quality assurance provisions shall be as specified in A-A-55568.

5. PACKAGING. Packaging shall be as specified in A-A-55568.

6. NOTES.

6.1 PIN. The PIN should be used for Government purposes to buy commercial products to this CID. See section 2 for PIN format.

6.2 CAGE code. For ordering purposes, inventory control, and submission of these headset-microphones to DSCC under the Military Parts Control Advisory Group (MPCAG) evaluation program, CAGE code 58536 should be used.

6.3 Source of documents.

Commercial Item Description

A-A-55568 - Headset-microphone, Lightweight, General Requirements for.

(Copies of commercial item descriptions are available from the Defense Printing Service Detachment Office, Building 4D (Customer Service), 700 Robbins Avenue, Philadelphia, PA 19111-5094.)

6.4 Ordering data. Ordering data shall be as specified in A-A-55568.

6.5 Commercial products. As part of the market analysis and research effort, this CID was coordinated with the following manufacturers of commercial products. At the time of CID preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

MFGR's CAGE	MFGR's name and address
22447	Plantronics, Inc. 345 Encinal St. Santa Cruz, CA 95060 (408) 426-5858
61754	ACS Wireless, Inc. 10 Victor Square Scotts Valley, CA 95066 (800) 995-5500 (408) 461-3290

6.6 Part number (P/N) supersession data. This CID supersedes the following manufacturer's P/Ns as shown. This information is being provided to assist in reducing proliferation in the government inventory system. Dash numbers -07 through -12 are to be supplied under this CID as a complete assembly. The separate P/N are supplied for information purposes only (see 2/ below).

Dash number (see table 1) AA55568/3-	MFGR CAGE	MFGR P/N 1/
01	22447	SHS1148-05B
02	22447	SHS1148-05
03	22447	SHS1148-05C
04	22447	SHS1646-01
	61754	712-1510-021-10
05	22447	SHS1646-02
	61754	712-1510-021-15
06	22447	SHS1646-03
	61754	712-1510-021-25
07	22447	H51 & SHS1890-10
08	22447	H51 & SHS1890-15
09	22447	H51 & SHS1890-25
10	22447	H51N & SHS1890-10
	61754	732-4100-02 & 752-0860-02-10
11	22447	H51N & SHS1890-15
	61754	732-4100-02 & 752-0860-02-15
12	22447	H51N & SHS1890-25
	61754	732-4100-02 & 752-0860-02-25

1/ The manufacturer's P/N shall not be used for procurement to the requirements of this CID. At the time of preparation of this CID, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown.

2/ P/N H51N = NSN 5965-01-431-3246; P/N SHS1890-10 = NSN 5965-01-431-7377; P/N SHS1890-15 = NSN5965-01-429-7779; P/N SHS1890-25 = NSN 5965-01-431-7378.

6.7 Government users. To acquire information on obtaining these headset-microphones from the Government inventory system, contact Defense Supply Center, Columbus, ATTN: DSCC-CCAB, 3990 East Broad Street, Columbus, OH 43216-5000, or telephone (614) 692-7992.

6.7.1 NSNs. The following is a list of NSNs assigned which correspond to this CID. The list is for information only and may not be indicative of all possible NSNs associated with the CID. For up to date information on assigned NSNs, please contact the Defense Supply Center, Columbus, ATTN: DSCC-CCAB, 3990 East Broad Street, Columbus, OH 43216-5000, or telephone (614) 692-7992.

Dash number (see table I) AA55568/3-	NSN
02	5965-01-345-5406
03	5965-01-398-6614

MILITARY INTERESTS:

Custodians

Navy - EC
Air Force - 85

CIVIL AGENCY COORDINATING ACTIVITY:

GSA - 7FXE

Preparing Activity:

DLA - CC

Project 5965-0259-03